Psychopharmacology

Volume 116 1994

	For North America and South America	For the rest of the world
	Clinical psychopharmacology	
Field editors	D.E. Casey, Portland	J. Gerlach, Roskilde
Advisory editors	B. Cohen, Belmont	P. Bech, Hillerød
	R. Poland, Torrance	W.F. Gattaz, Mannheim
		O. Lingjaerde, Oslo
		E.S. Paykel, Cambridge
	Human cognitive psychopharmacology	
Field editors	B.J. Spring, North Chicago	D.M. Warburton, Reading
Advisory editors	R. Block, Iowa City	I. Hindmarch, Guildford
	E. Gamzu, Cambridge	B.J. Sahakian, Cambridge
	T. Roehrs, Detroit	K. Siegfried, Frankfurt
	H. Weingartner, Washington DC	
	Alcohol and substance abuse in humans	
Field editors	H. de Wit, Chicago	D.M. Warburton, Reading
Advisory editors	G. Bigelow, Baltimore	I. Hindmarch, Guildford
	S.S. O'Malley, New Haven	B.J. Sahakian, Cambridge
		K. Siegfried, Frankfurt
	Biochemical neuropharmacology, drug metabolism and pharmacokinetics	
Field editors	D.R. Sibley, Bethesda	J. Leysen, Beerse
Advisory editors	I. Creese, Newark	J. Heykants, Beerse
	I. Kopin, Bethesda	J. Hyttel, Copenhagen-Valby
	J.M. Perel, Pittsburgh	C.A. Marsden, Nottingham
	Behavioral pharmacology in laboratory animals	
Field editors	K.A. Miczek, Medford	T.W. Robbins, Cambridge
Advisory editors	R.L. Balster, Richmond	W. Koek, Castres
	J.E. Barrett, Bethesda	B.J. Everitt, Cambridge
	H. Barry III, Pittsburgh	A.J. Goudie, Liverpool
	J. Bergman, Southborough	J. Scheel-Krüger, Roskilde
	S.G. Holtzman, Atlanta	I.P. Stolerman, London
	H. Kalant, Toronto	
	Preclinical psychopharmacology	
Field editors	M.A. Geyer, La Jolla	A.R. Green, London
Advisory editors	S.D. Glick, Albany	G. Di Chiara, Cagliari
	K.F. Killam, Davis	D.J. Heal, Nottingham
	G.F. Koob, San Diego	P. Jenner, London
	S.B. Sparber, Minneapolis	P. Pascoe, Farnborough
	R.A. Wise, Montreal	J.L. Waddington, Dublin 2

Springer International

Psychopharmacology

This journal was founded as **Psychopharmacologia** in 1959 and was renamed **Psychopharmacology** beginning with Vol. 46 (1976).

The journal has been edited by the following Managing Editors:

Vol. 1 (1959), E. Rothlin and A. Wikler; Vol. 2 (1961), E. Rothlin and H. Isbell; Vol. 3 (1962), E. Rothlin and A. Wikler; Vol. 4 (1963)–Vol. 7 (1965), J.O. Cole and E. Rothlin; Vol. 8 (1965)–Vol. 16 (1969), J.O. Cole, E. Jacobsen, M.E. Jarvik, M. Shepherd; Vol. 17 (1970), J.O. Cole, E. Jacobsen, C. Kornetzky, M. Shepherd; Vol. 18 (1970)–Vol. 27 (1972), J.O. Cole, M. Hamilton, E. Jacobsen, C. Kornetzky; Vol. 28 (1973)–Vol. 35 (1974), J.O. Cole, M. Hamilton, E. Jacobsen, C. Kornetzky, R.W. Russell; Vol. 36 (1974)–Vol. 69 (1980), H. Barry III, J.O. Cole, M. Hamilton, E. Jacobsen, R.W. Russell. Vol. 70 (1980) – Vol. 77 (1982), H. Barry III, J.O. Cole, M. Hamilton, T.W. Robbins, R.W. Russell.

Starting with Vol. 80 (1983) the Editors have been: H. Barry III, T.W. Robbins (Coordinating Editors), J.O. Cole, J. Gerlach, M. Hamilton, J. Leysen, F. Sulser. As of Vol. 85 (1985): H. Barry III, D.E. Casey, J.O. Cole, J. Gerlach, S.D. Glick, A.R. Green, M. Hamilton, J. Leysen, T.W. Robbins, F. Sulser. As of Vol. 92 (1987): H. Barry III, D.E. Casey, J. Gerlach, S.D. Glick, A.R. Green, J. Leysen, T.W. Robbins, B.J. Spring, F. Sulser, D.M. Warburton. As of Vol. 98 (1989): H. Barry III, D.E. Casey, J. Gerlach, S.D. Glick, A.R. Green, J. Leysen, T.W. Robbins, D.R. Sibley, B.J. Spring, D.M. Warburton. As of Vol. 106 (1992): D.E. Casey, J. Gerlach, M.A. Geyer, A.R. Green, J. Leysen, K.A. Miczek, T.W. Robbins, D.R. Sibley, B.J. Spring, D.M. Warburton. As of Vol. 109 (1992): D.E. Casey, J. Gerlach, M.A. Geyer, A.R. Green, J. Layson, K.A. Miczek, T.W. Robbins, D.R. Sibley, B.J. Spring, D.M. Warburton, H. de Wit.

Copyright

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review or thesis), that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.
All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.
The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.
While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

Special regulations for photocopies in the USA:
Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0033-3158, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Universitätsdruckerei H. Stürtz AG, Würzburg
© Springer-Verlag Berlin Heidelberg 1994
Printed in Germany

Contents of volume 116

No 1: pp 1–124 published September 7, 1994
No 2: pp 125–242 published October 7, 1994
No 3: pp 243–388 published November 7, 1994
No 4: pp 389–538 published December 5, 1994

Acri JB: Nicotine modulates effects of stress on acoustic startle reflexes in rats: dependence on dose, stressor and initial reactivity 255
Airaksinen MM → Callaway JC
Anderson J → Wewers ME
Andreassen OA, Jørgensen HA: GM1 ganglioside attenuates the development of vacuous chewing movements induced by long-term haloperidol treatment of rats 517
Andreassen OA → Jørgensen HA
Arnaud C, Gauthier P, Gottesmann C: Atropine effects on the intermediate stage and paradoxical sleep in rats 304
Arnsten AFT, Cai JX, Murphy BL, Goldman-Rakic PS: Dopamine D_1 receptor mechanisms in the cognitive performance of young adult and aged monkeys 143

Balster RL → Wiley JL
Bardo MT → Crawford CA
Barlage U → Seiler W
Barrett JE, Gamble EH, Zhang L, Guardiola-Lemaitre B: Anticonflict and discriminative stimulus effects in the pigeon of a new methoxy-chroman 5-HT_{1A} agonist, (+)S20244 and its enantiomers (+)S20499 and (−)S20500 73
Bates T → Stough C
Becker HC: Positive relationship between the number of prior ethanol withdrawal episodes and the severity of subsequent withdrawal seizures 26
Benoit O, Bouard G, Payan C, Borderies P, Prado J: Effect of a single dose (10 mg) of zolpidem on visual and spectral analysis of sleep in young poor sleepers 297
Bergman J → Rosenzweig-Lipson S
Bigelow GE → Strain EC
Bill DJ → Shepherd JK
Bolanos CA → McDougall SA
Borderies P → Benoit O
Boselli M → Parrino L
Bouard G → Benoit O
Bradberry CW → Nobiletti JB
Bradshaw CM → Graham S
Brito GS → Callaway JC
Broekkamp C → Cheeta S
Butler S → Fulford AJ

Cagiano R → Di Giovanni V
Cai JX → Arnsten AFT
Callaway JC, Airaksinen MM, McKenna DJ, Brito GS, Grob CS: Platelet serotonin uptake sites increased in drinkers of Ayahuasca 385
Camfferman G → Leeuwen TH van
Carratù MR → Di Giovanni V
Castañeda E → Neisewander JL
Cheeta S, Broekkamp C, Willner P: Stereospecific reversal of stress-induced anhedonia by mianserin and its (+)-enantiomer 523
Christopher Pierce R, Clemens AJ, Shapiro LA, Rebec GV: Repeated treatment with ascorbate or haloperidol, but not clozapine, elevates extracellular ascorbate in the neostriatum of freely moving rats 103
Claus D → Rechlin T
Clemens AJ → Christopher Pierce R
Cole BJ, Jones GH, Turner JD: 5-HT_{1A} receptor agonists improve the performance of normal and scopolamine-impaired rats in an operant delayed matching to position task 135
Cook CE → Perez-Reyes M
Cousins MS, Wei W, Salamone JD: Pharmacological characterization of performance on a concurrent lever pressing/feeding choice procedure: effects of dopamine antagonist, cholinomimetic, sedative and stimulant drugs 529
Cowen PJ → Series HG
Cowen PJ → Walsh AES
Crawford CA, McDougall SA, Bardo MT: Ontogenetic effects of EEDQ on amphetamine-induced behaviors of rats: role of presynaptic processes 152
Crawford CA → McDougall SA
Crawley JN → Mathis C
Csernansky JG, Newcomer JW, Jackson K, Lombrozo L, Faull KF, Zipursky R, Pfefferbaum A, Faustman WO: Effects of raclopride treatment on plasma and CSF HVA: relationships with clinical improvement in male schizophrenics 291
Cunningham CL → Risinger FO
Cuomo V → Di Giovanni V

Davis DA → Neisewander JL
Davison KH → Fowler SC
Depoortere RY → Li DH
De Salvia MA → Di Giovanni V
Di Giovanni G → Parrino L
Di Giovanni V, Cagiano R, Carratù MR, De Salvia MA, Giustino A, Cuomo V: Alterations in the ontogeny of rat pup ultrasonic vocalization produced by prenatal exposure to nitrogen dioxide 423
DiMarco A → Perkins KA
Dourish CT → Shepherd JK
Drummond C → Glautier S
Duke MA → McDougall SA
Dunn LA: Response to the letter to the editors: The latent inhibition model of schizophrenic attention disorder and of antipsychotic drug action: comment on Dunn, Atwater and Kilts (Psychopharmacology, 1993, 112:315–323) 381

Ebmeier KP → O'Carroll RE
Emmett-Oglesby MW → Li DH
Eyles DW, Stedman TJ, Pond SM: Nonlinear relationship between circulating concentrations of reduced haloperidol and haloperidol: evaluation of possible mechanisms 161

Fagan D, Paul DL, Tiplady B, Scott DB: A dose-response study of the effects of inhaled nitrous oxide on psychological performance and mood 333
Fagerström KO, Pomerleau O, Giordani B, Stelson F: Nicotine may relieve symptoms of Partkinson's disease 117
Faull KF → Csernansky JG
Faustman WO → Csernansky JG
Feldon J → Weiner I
Ferré S, Schwarcz R, Li XM, Snaprud P, Ögren SO, Fuxe K: Chronic haloperidol treatment leads to an increase in the intramembrane interaction between adenosine A_2 and dopamine D_2 receptors in the neostriatum 279
Ferré S → Herrera-Marschitz M
File SE: Chronic exposure to noise modifies the anxiogenic response, but not the hypoactivity, detected on withdrawal from chronic ethanol treatment 369
Fletcher A → Shepherd JK
Fowler SC, Davison KH, Stanford JA: Unlike haloperidol, clozapine slows and dampens rat's forelimb force oscillations and decreases force output in a press-while-licking behavioral task 19
Fukase H, Fukuzaki K, Koja T, Nagata R, Lukas SE: Effects of morphine, naloxone, buprenorphine, butorphanol, haloperidol and imipramine on morphine withdrawal signs in cynomolgus monkeys 396
Fukuzaki K → Fukase H
Fulford AJ, Butler S, Heal DJ, Kendall DA, Marsden CA: Evidence for altered α_2-adrenoceptor function following isolation-rearing in the rat 183
Fuxe K → Ferré S

Gamble EH → Barrett JE
Gauthier P → Arnaud C
Gillin JC, Jernajczyk W, Valladares-Neto D de C, Golshan S, Lardon M, Stahl SM: Inhibition of REM sleep by ipsapirone, A 5HT1$_A$ agonist, in normal volunteers 433
Giordani B → Fagerström KO
Giustino A → Di Giovanni V
Glautier S, Drummond C, Remington B: Alcohol as an unconditioned stimulus in human classical conditioning 360
Goldman-Rakic PS → Arnsten AFT
Golshan S → Gillin JC
Goodall EM → Walsh AES
Goodwin GM → O'Carroll RE
Göthert M → Kathmann M

Gottesmann C → Arnaud C
Graham S, Ho M-Y, Bradshaw CM, Szabadi E: Facilitated acquisition of a temporal discrimination following destruction of the ascending 5-hydroxytryptaminergic pathways 373
Grewal SS → Shepherd JK
Grob CS → Callaway JC
Grobe JE → Perkins KA
Guardiola-Lemaitre B → Barrett JE
Gueudet C → Poncelet M
Gugten J van der → Leeuwen TH van
Gully D → Poncelet M

Handley SL → McBlane JW
Heal DJ → Fulford AJ
Herrera-Marschitz M, Luthman J, Ferré S: Unilateral neonatal intracerebroventricular 6-hydroxydopamine administration in rats: II. Effects on extracellular monoamine, acetylcholine and adenosine levels monitored with in vivo microdialysis 451
Herrera-Marschitz M → Luthman J
Hesterberg P → Rosenzweig-Lipson S
Heyser CJ, Rajachandran L, Spear NE, Spear LP: Responsiveness to cocaine challenge in adult rats following prenatal exposure to cocaine 45
Hiemke C → Jussofie A
Hiemke C → Seiler W
Hietala J, West C, Syvälahti E, Någren K, Lehikoinen P, Sonninen P, Ruotsalainen U: Striatal D_2 dopamine receptor binding characteristics in vivo in patients with alcohol dependence 285
Hillert A → Seiler W
Hiramatsu M, Satoh H, Kameyama T, Nabeshima T: Nootropic effect of nicotine on carbon monoxide (CO)-induced delayed amnesia in mice 33
Ho M-Y → Graham S
Hole K → Jørgensen HA
Holtzman SG: Discriminative stimulus effects of dextromethorphan in the rat 249
Holtzman SG, Steinfels GF: Antagonism of the discriminative stimulus effects of the kappa-opioid agonist spiradoline 243
Holtzman SG → Hooks MS
Hooks MS, Jones DNC, Holtzman SG, Juncos JL, Kalivas PW, Justice JB Jr: Individual differences in behavior following amphetamine, GBR-12909, or apomorphine but not SKF-38393 or quinpirole 217
Huttunen MO → Raitasuo V

Inglefield JR, Kellogg CK: Hypothalamic $GABA_A$ receptor blockade modulates cerebral cortical systems sensitive to acute stressors 339
Isa Y → Uchihashi Y

Jackson DM → Johansson C
Jackson K → Csernansky JG
Jatlow PI → Nobiletti JB
Jeffcoat AR → Perez-Reyes M
Jernajczyk W → Gillin JC
Johansson C, Jackson DM, Svensson L: The atypical; antipsychotic, remoxipride, blocks phencyclidine-induced dusruption of prepulse inhibition in the rat 437
Jones DNC → Hooks MS
Jones GH → Cole BJ
Jørgensen HA, Andreassen OA, Hole K: The relationship between motor effects in rats following acute and chronic haloperidol treatment 89
Jørgensen HA → Andreassen OA
Juncos JL → Hooks MS
June HL, Lewis MJ: Interactions of Ro15-4513, Ro15-1788 (flumazenil) and ethanol on measures of exploration and locomotion in rats 309
Jussofie A, Schmiz A, Hiemke C: Kavapyrone enriched extract from *Piper methysticum* as modulator of the GABA binding site in different regions of rat brain 469
Justice JB Jr → Hooks MS

Kalivas PW → Hooks MS
Kameyama T → Hiramatsu M
Kathmann M, Schlicker E, Göthert M: Intermediate affinity and potency of clozapine and low affinity of other neuroleptics and of antidepressants at H_3 receptors 464
Kelley AE → Maldonado-Irizarry CS
Kellogg CK → Inglefield JR
Kendall DA → Fulford AJ
Koelega HS → Leeuwen TH van
Koinig G → Maier U
Koja T → Fukase H
Kuribara H: Caffeine enhances the stimulant effect of methamphetamine, but may not affect induction of methamphetamine sensitization of ambulation in mice 125
Kuribara H → Uchihashi Y

Langer M → Seiler W
Lardon M → Gillin JC
Lee AM → McGregor IS
Leeuwen TH van, Verbaten MN, Koelega HS, Camfferman G, Gugten J van der, Slangen JL: Effects of oxazepam on performance and event-related brain potentials in vigilance tasks with static and dynamic stimuli 499
Le Fur G → Poncelet M
Lehikoinen P → Hietala J
Lehtovaara R → Raitasuo V
Levesque TR, Locke KW: Discriminative stimulus effects of melatonin in the rat 167
Lewis MJ → June HL
Li DH, Depoortere RY, Emmett-Oglesby MW: Tolerance to the reinforcing effects of cocaine in a progressive ratio paradigm 326
Li XM → Ferré S
Liebson IA → Strain EC
Lindqvist E → Luthman J
Locke KW → Levesque TR
Lombrozo L → Csernansky JG
Lukas SE → Fukase H
Luthman J, Herrera-Marschitz M, Lindqvist E: Unilateral neonatal intracerebroventricular 6-hydroxydopamine administration in rats: I. Effects on spontaneous and drug-induced rotational behavior and on postmortem monoamine levels 443
Luthman J → Herrera-Marschitz M
Lyon M, McClure WO: Investigations of fetal development models for prenatal drug exposure and schizophrenia. Prenatal *d*-amphetamine effects upon early and late juvenile behavior in the rat 226

Maier U, Koinig G: Andrological findings in young patients under long-term antidepressive therapy with clomipramine 357
Maldonado-Irizarry CS, Kelley AE: Differential behavioral effects following microinjection of an NMDA antagonist into nucleus accumbens subregions 65
Malott DH → Risinger FO
Mangan G → Stough C
Marsden CA → Fulford AJ
Mathis C, Paul SM, Crawley JN: The neurosteroid pregnenolone sulfate blocks NMDA antagonist-induced deficits in a passive avoidance memory task 201
McAllister KH: D-Cycloserine enhances social behaviour in individually-housed mice in the resident-intruder test 317
McBlane JW, Handley SL: Effects of two stressors on behaviour in the elevated X-maze: preliminary investigation of their interaction with 8-OH-DPAT 173
McClure WO → Lyon M
McDougall SA, Duke MA, Bolanos CA, Crawford CA: Ontogeny of behavioral sensitization in the rat: effects of direct and indirect dopamine agonists 483
McDougall SA → Crawford CA
McGregor IS, Lee AM, Westbrook RF: Stress-induced changes in respiratory quotient, energy expenditure and locomotor activity in rats: effects of midazolam 475
McKenna DJ → Callaway JC
Merlotti L → Roehrs T
Miczek KA → Tornatzky W
Miczek KA → Vivian JA
Moffoot APR → O'Carroll RE
Morita T → Uchihashi Y
Murphy BL → Arnsten AFT
Myers M → Perez-Reyes M
Nabeshima T → Hiramatsu M

Nagata R → Fukase H
Någren K → Hietala J
Navarro M, Rubio P, Rodríguez de Fonseca F: Sex-dimorphic psychomotor activation after perinatal exposure to (−)-Δ^9-tetrahydrocannabinol. An ontogenic study in Wistar rats 414
Neisewander JL, Castañeda E, Davis DA: Dose-dependent differences in the development of reserpine-induced oral dyskinesia in rats: support for a model of tardive dyskinesia 79
Newcomer JW → Csernansky JG
Nichus DR → Risinger FO
Nobiletti JB, Jatlow PI, Bradberry CW:

Differences in bioavailability between cocaine and cocaethylene and their implications for drug-reward studies 273

O'Carroll RE, Moffoot APR, Ebmeier KP, Goodwin GM: Effects of fluvoxamine treatment on cognitive functioning in the alcoholic Korsakoff syndrome 85
Ögren SO → Ferré S
Oldman AD → Walsh AES
Oren DA, Schulkin J, Rosenthal NE: 1,25 $(OH)_2$ vitamin D_3 levels in seasonal affective disorder: Effects of light 515

Parrino L, Spaggiari MC, Boselli M, Di Giovanni G, Terzano MG: Clinical and polysomnographic effects of trazodone CR in chronic insomnia associated with dysthymia 389
Parrott AC: Acute pharmacodynamic tolerance to the subjective effects of cigarette smoking 93
Paul DL → Fagan D
Paul SM → Mathis C
Payan C → Benoit O
Pellett O → Stough C
Perez-Reyes M, Jeffcoat AR, Myers M, Sihler K, Cook CE: Comparison in humans of the potency and pharmacokinetics of intravenously injected cocaethylene and cocaine 428
Perkins KA, DiMarco A, Grobe JE, Scierka A, Stiller RL: Nicotine discrimination in male and female smokers 407
Pfefferbaum A → Csernansky JG
Pomerleau O → Fagerström KO
Poncelet M, Souilhac J, Gueudet C, Terranova JP, Gully D, Le Fur G, Soubrié P: Effects of SR 48692, a selective nonpeptide neurotensin receptor antagonist, on two dopamine-dependent behavioural responses in mice and rats 237
Pond SM → Eyles DW
Prado J → Benoit O
Prather LK → Risinger FO

Raitasuo V, Lehtovaara R, Huttunen MO: Effect of switching carbamazepine to oxcarbazepine on the plasma levels of neuroleptics. A case report 115
Rajachandran L → Heyser CJ
Rebec GV → Christopher Pierce R
Rechlin T, Claus D, Weis M: Heart rate analysis in 24 patients treated with 150 mg amitriptyline per day 110
Remington B → Glautier S
Risinger FO, Malott DH, Prather LK, Nichus DR, Cunningham CL: Motivational properties of ethanol in mice selectively bred for ethanol-induced locomotor differences 207
Rodríguez de Fonseca F → Navarro M
Roehrs T, Merlotti L, Zorick F, Roth T: Sedative, memory, and performance effects of hypnotics 130
Rosenthal NE → Oren DA
Rosenzweig-Lipson S, Hesterberg P, Bergman J: Observational studies of dopamine D_1 and D_2 agonists in squirrel monkeys 9
Roth T → Roehrs T
Rubio P → Navarro M
Ruotsalainen U → Hietala J

Salamone JD → Cousins MS
Sato T → Uchihashi Y
Satoh H → Hiramatsu M
Schlicker E → Kathmann M
Schmiz A → Jussofie A
Schöllnhammer G → Seiler W
Schulkin J → Oren DA
Schwarcz R → Ferré S
Scierka A → Perkins KA
Scott DB → Fagan D
Seiler W, Wetzel H, Hillert A, Schöllnhammer G, Langer M, Barlage U, Hiemke C: Pharmacokinetics and bioavailability of benperidol in schizophrenic patients after intravenous and two different kinds of oral application 457
Series HG, Cowen PJ, Sharp T: p-Chloroamphetamine (PCA), 3,4-methylenedioxy-methamphetamine (MDMA) and *d*-fenfluramine pretreatment attenuates *d*-fenfluramine-evoked release of 5-HT in vivo 508
Shapiro LA → Christopher Pierce R
Sharp T → Series HG
Shepherd JK, Grewal SS, Fletcher A, Bill DJ, Dourish CT: Behavioural and pharmacological characterisation of the elevated "zero-maze" as an animal model of anxiety 56
Sihler K → Perez-Reyes M
Sills TL, Vaccarino FJ: Individual differences in sugar intake predict the locomotor response to acute and repeated amphetamine administration 1
Slangen JL → Leeuwen TH van
Smith KA → Walsh AES
Snaprud P → Ferré S
Sonninen P → Hietala J
Soubrié P → Poncelet M
Souilhac J → Poncelet M
Spaggiari MC → Parrino L
Spear LP → Heyser CJ
Spear NE → Heyser CJ
Stahl SM → Gillin JC
Stanford JA → Fowler SC
Stedman TJ → Eyles DW
Steinfels GF → Holtzman SG
Stelson F → Fagerström KO
Stiller RL → Perkins KA
Stitzer ML → Strain EC
Stough C, Mangan G, Bates T, Pellett O: Smoking and Raven IQ 382
Strain EC, Stitzer ML, Liebson IA, Bigelow GE: Buprenorphine versus methadone in the treatment of opioid-dependent cocaine users 401
Svensson L → Johansson C
Syvälahti E → Hietala J
Szabadi E → Graham S

Tejwani GA → Wewers ME
Terranova JP → Poncelet M
Terzano MG → Parrino L
Tiplady B → Fagan D
Tirelli E, Witkin JM: Verticalization of behavior elicited by dopaminergic mobilization is qualitatively different between C57BL/6J and DBA/2J mice 191
Tornatzky W, Miczek KA: Behavioral and autonomic responses to intermittent social stress: differential protection by clonidine and metoprolol 346
Turner JD → Cole BJ

Uchihashi Y, Kuribara H, Isa Y, Morita T, Sato T: The disruptive effects of ketamine on passive avoidance learning in mice: involvement of dopaminergic mechanism 40

Vaccarino FJ → Sills TL
Valladares-Neto D de C → Gillin JC
Verbaten MN → Leeuwen TH van
Vivian JA, Weerts EM, Miczek KA: Defeat engenders pentylenetetrazole-appropriate responding in rats: antagonism by midazolam 491

Walsh AES, Smith KA, Oldman AD, Williams C, Goodall EM, Cowen PJ: *m*-Chlorophenylpiperazine decreases food intake in a test meal 120
Weerts EM → Vivian JA
Wei W → Cousins MS
Weiner I, Feldon J: The latent inhibition model of schizophrenic attention disorder and of antipsychotic drug action: comment on Dunn, Atwater and Kilts (Psychopharmacology, 1993, 112: 315–323) 379
Weis M → Rechlin T
West C → Hietala J
Westbrook RF → McGregor IS
Wetzel H → Seiler W
Wewers ME, Tejwani GA, Anderson J: Plasma nicotine, plasma β-endorphin and mood states during periods of chronic smoking, abstinence and nicotine replacement 98
Wiley JL, Balster RL: Effects of competitive and non-competitive *N*-methyl-D-aspartate (NMDA) antagonists in squirrel monkeys trained to discriminate D-CPPene (SDZEAA494) from vehicle 266
Williams C → Walsh AES
Willner P → Cheeta S
Witkin JM → Tirelli E

Zhang L → Barrett JE
Zipursky R → Csernansky JG
Zorick F → Roehrs T

Indexed in *Current Contents, Psychological Abstracts* and in *Psyc* INFO